

# Rack Installation Instructions

## hp StorageWorks NAS 1500s



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HP StorageWorks NAS 1500s  
Rack Installation Instructions  
First Edition (July 2004)  
Part Number: 372017-001



## Warnings and Cautions



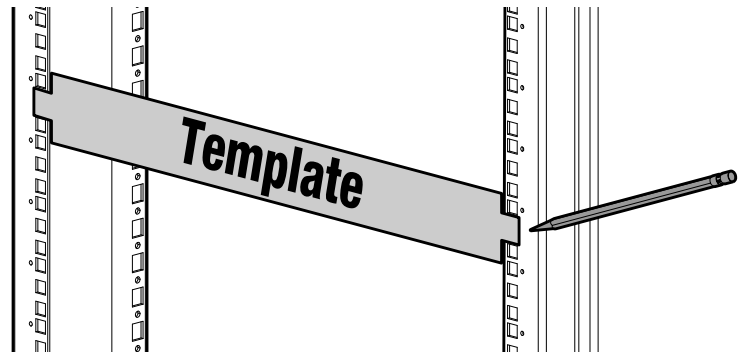
**WARNING:** Before you begin, make sure that the rack is sufficiently stable. If provided, lower the rack leveler feet and make sure any required stabilizers are installed. If provided, extend the rack anti-tip device. Failure to extend the anti-tip device could result in personal injury or damage if the rack tips over.



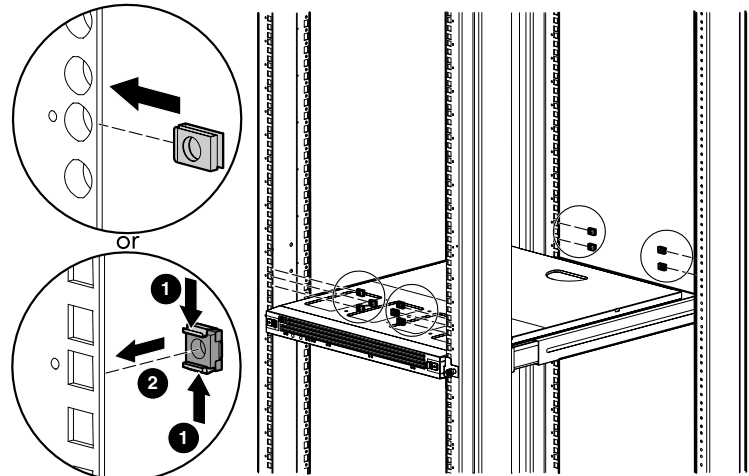
**CAUTION:** Make sure that the rack and all equipment mounted in the rack have a reliable ground connection. Verify that the total current of the rack components does not exceed the current rating of the power distribution unit or outlet receptacles.

## 1 Rack preparation

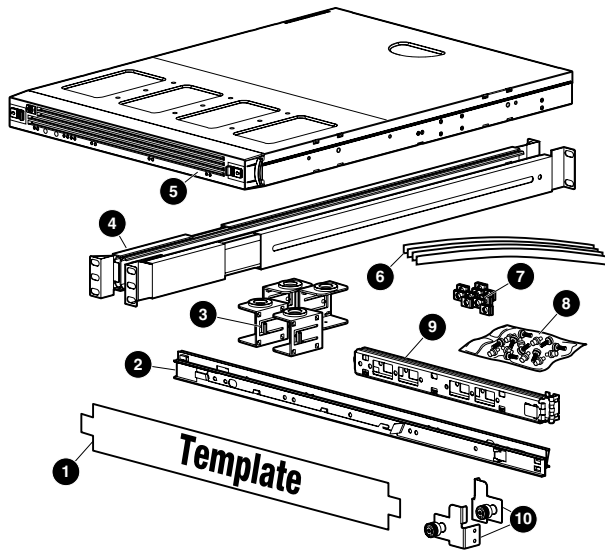
1. Mark the front and back rack holes for the cage nuts.



2. Install cage nuts.



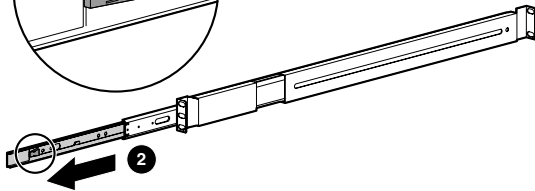
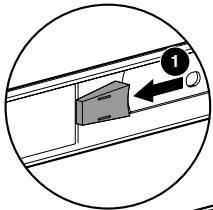
## Contents



- |  |                        |
|--|------------------------|
| 1 Rack Template                              | 6 Velcro straps        |
| 2 Inner slide rails<br>(removed for clarity) | 7 Cage Nuts            |
| 3 Stacking feet                              | 8 Mounting screws      |
| 4 Inner slide rails                          | 9 Cable management arm |
| 5 NAS 1500s                                  | 10 Thumbscrew brackets |

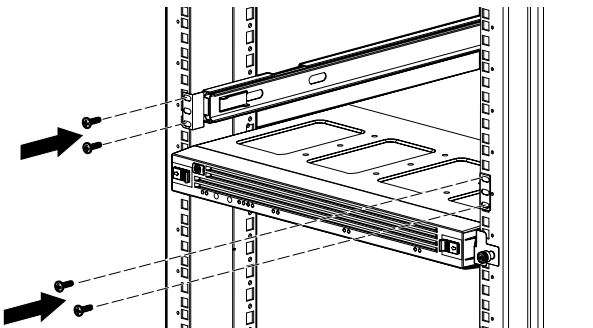
## 2 Slide rail installation

- Remove inner slides from slide rails:
  - Extend inner slides until they lock.
  - Press green tab to release; pull out inner slide.

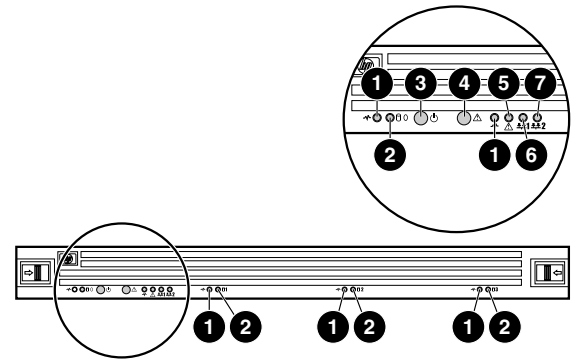


- Install slide rails in rack.

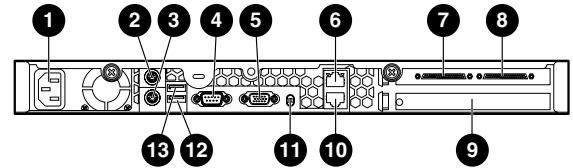
**IMPORTANT:** Leave back screws slightly loose until step 4, "Server installation" is complete.



## Front and rear views



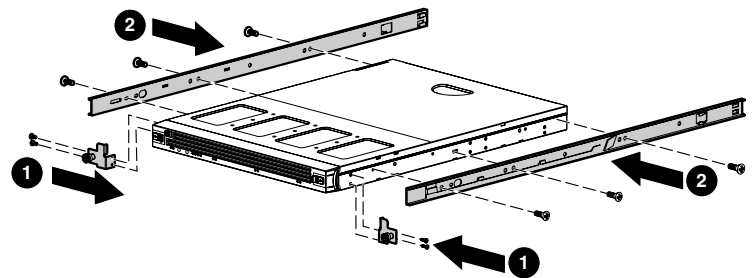
- |                           |                 |
|---------------------------|-----------------|
| 1 Reserved                | 6 Power         |
| 2 Hard disk Access/Status | 7 Unit ID (UID) |
| 3 Power button            | 8 NIC 1 access  |
| 4 Reserved                | 9 NIC 2 access  |
| 5 UID button              |                 |



- |                     |   |
|---------------------|---|
| 1 Power connector   | 7, 8 HP SCSI Ultra 160 Dual Port                              |
| 2 Keyboard (purple) | 9 Adaptec 2410SA HW RAID 4 Port<br>SATA controller (internal) |
| 3 Mouse (green)     | 10 NIC 1 (Eth1)   |
| 4 Serial (teal)     | 11 UID light and button                                       |
| 5 Video (blue)      | 12, 13 USB  |
| 6 NIC 1 (Eth0)      |   |

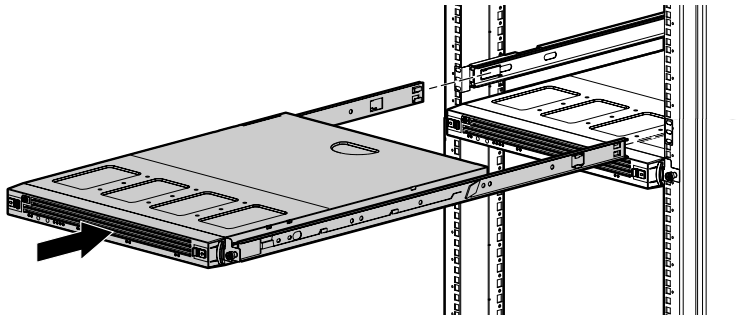
## 3 Server preparation

- Attach thumbscrew brackets.
- Attach inner slides.

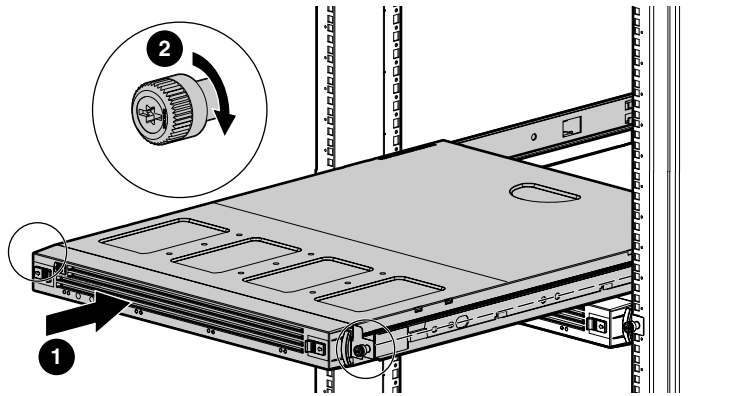


## 4 Server installation

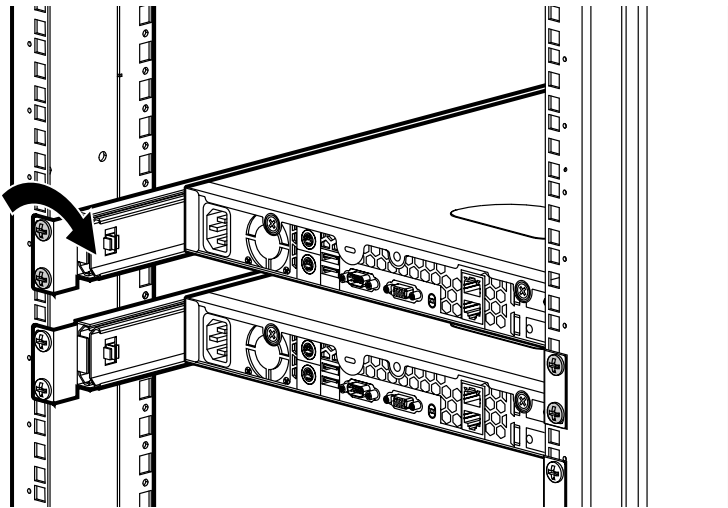
1. Insert inner slide into slide rails. Push server into rack until inner slides lock into the slide rails.



2. Slide server in and out several times to align slide rails in the back.
3. Tighten front thumbscrews.

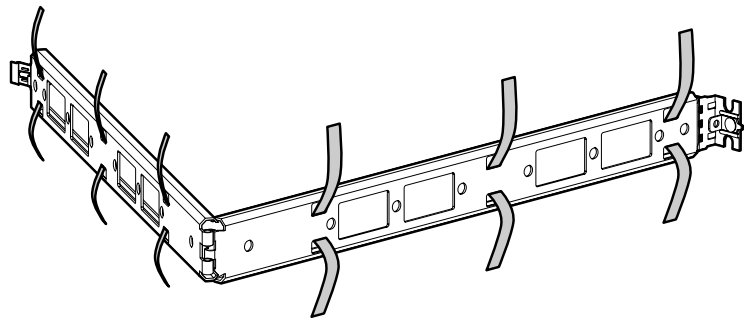


4. Tighten rear slide rail screws.

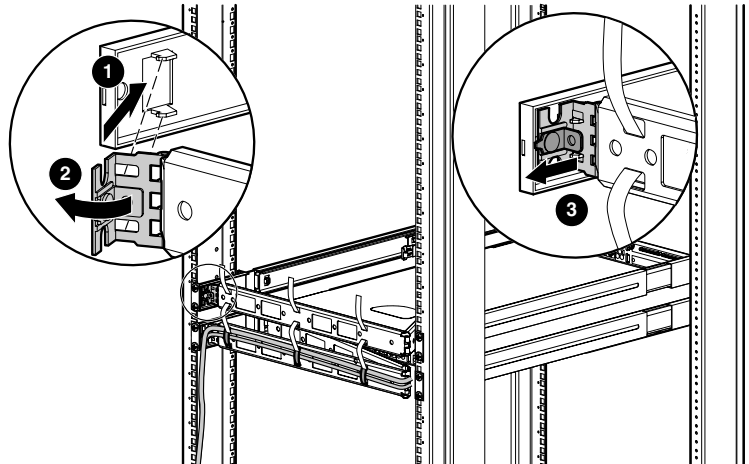


## 5 Cable arm installation

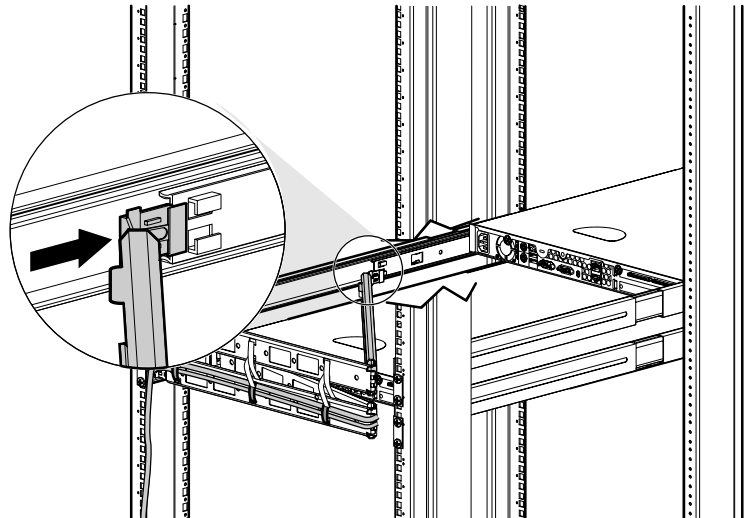
1. Thread velcro straps through the cable management arm.



2. Attach the cable management arm:
  - a. Insert the cable arm's hinged bracket into the slide rails rear receiving hooks ①.
  - b. Rotate the bracket forward until spring loaded tab ② locks.

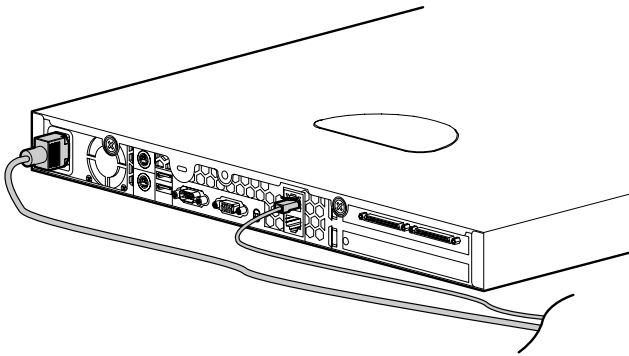


3. Insert the front of the cable management arm into the receiving clip of the slide rail.

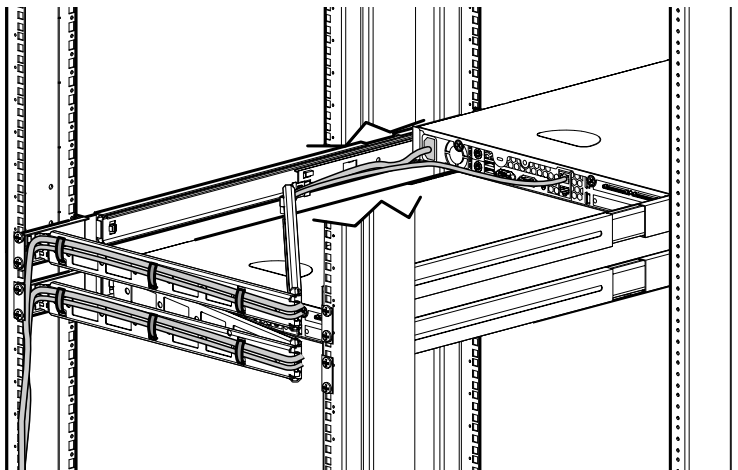


## 6 Cables

1. Install cables.

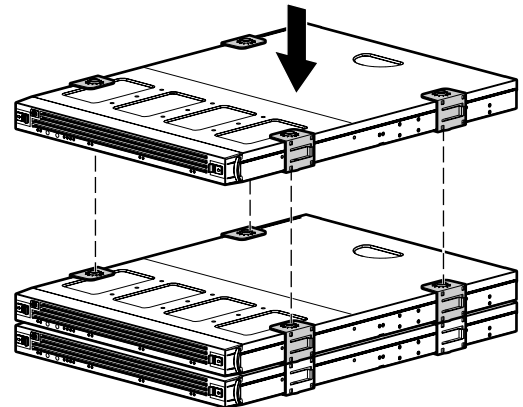
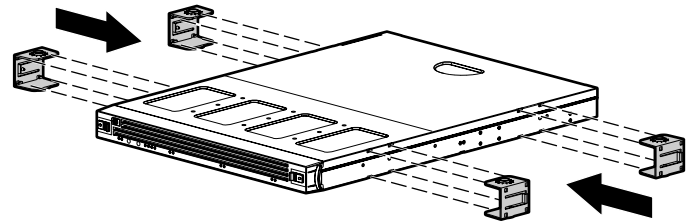


2. Use velcro straps to secure cables to management arm.



## Stacking option

As an alternative to rack installation, up to four NAS servers can be stacked with the optional stacking feet.



## Product documentation

<i>Installation Instructions</i>	rack installation instructions
<i>Rack template</i>	tool used during rack installation
<i>Installation Guide</i>	product overview, requirements and configuration options
<i>Administration Guide</i>	provides administrative and procedural instructions to manage the NAS server
<i>Documentation CD</i>	contains electronic versions of: <ul style="list-style-type: none"><li>■ Administration Guide</li><li>■ Installation Guide</li><li>■ Rack Installation Instructions</li></ul>
<i>HP Warranty fulfillment document</i>	provides instructions to obtain a printed warranty
<i>HP Important Safety Information booklet</i>	Safety information for HP Storage, Power, Networking and Rack products